# TAP INTO Quality



## Back to Normal!

Lake Miichie, Fall 2004

For the first time in three years, Durham did not face the challenges of limited water supply (such as the drought of the century in 2002) or catastrophic winter weather. Although our neighbors to the south, notably Florida, experienced multiple hurricane hits, most of North Carolina and the Piedmont were treated to a normal year! To water providers, "normal" means that supply lakes are full on April 1st of each year and that sufficient rainfall is received throughout the year so that lakes remain at least 80 percent full. For the calendar year 2004, the Durham area received 47.05 inches of rainfall, which is four inches more than the 30-year annual average rainfall for the area of 43.05 inches. Also, temperatures were relatively normal, with few days in excess of 90 degrees. Both Lake Michie and Little River remained relatively full throughout the summer months, dropping by a maximum of 3.1 feet and 5.3 feet respectively. For comparison purposes, Lake Michie levels dropped almost 24 feet during the height of the drought in mid-August 2002.

With normal conditions in place, Durham's treatment plants delivered an average of 26.82 million gallons of water per day (mgd) to over 192,000 people in Durham City and County. This 3.8 percent increase in demand over the previous year is a normal, expected and planned for gain due to growth in the area. The Department of Water Management, Water Supply and Treatment Division employees take pride in continuing to deliver an adequate supply of clean, safe water to your tap. This requires dedicated teamwork from all 283 individuals, work-groups and divisions within the Department of Water Management as well as cooperation and collaboration with several City and County departments.

We are pleased to present the 2004 edition of *Tap into Quality*, the City's annual water quality report and share that the water from your tap continues to comply with all state and federal requirements for drinking water. This report is prepared and distributed each year in accordance with state and EPA mandates. In this report, you will find a table showing that Durham's tap water had *zero violations of water quality standards* during the 2004 calendar year. The substances detected were all well below the levels allowed by the Environmental Protection Agency (EPA). The City is required to test for more than 100 different constituents in the drinking water and the compounds listed in the tables represent just a fraction of the total number of required and voluntary analyses conducted each year.

During the 2004 calendar year, Durham did receive a reporting violation for Inorganic Metals (Cyanide) from the state. As staff researched the issue, it was determined that the correct sample was collected, analyzed (by appropriate method) and submitted to the

state within the appropriate timeframe. However, the information was reported on a form that was not marked "for compliance purposes," and therefore generated a notice of violation from the state. In February of 2005, we also received a reporting violation for Total Organic Carbon (TOC). Although the appropriate samples were collected, analyzed and submitted to the state, the results were held up in the US Postal System and were not received by the state's due date. City staff has undertaken a number of measures, including the pursuit of electronic submittal of results, to prevent any future reoccurrence of these issues. Please note that the health and safety of Durham's drinking water was never compromised and water quality standards were consistently met.

#### **Outreach & Education EFFORTS**

Water Management staff are always happy to participate in activities that foster knowledge about water resources, water quality and water/ wastewater treatment. Specifically, Conservation Program staff members engage in a number of outreach activities that promote wise water use. Old, water-wasting showerheads can be exchanged for water efficient ones at community events throughout the year. These events include CenterFest, Durham Earth Day Festival and the Waste Less Fests held several times and at various locations during the year. The department also sponsors the annual poster contest for Durham school children. After learning about the importance of having adequate, safe water to drink, children design and submit themed posters for judging. This year, several local school children, including former poster contest winners, rode on the department's float in the 2004 Durham Holiday parade.

#### **Community PARTICIPATION**

How can you be involved in decisions regarding Durham's water system or other City issues? Citizens are welcome to attend regularly scheduled meetings of Durham's City Council. Council meetings are the first and third Monday of each month at 7 p.m. City Council members also have regular work sessions to prepare for Council meetings. These sessions occur on Thursdays – two weeks prior to each regular Council meeting. Work sessions are held at 1 p.m. in the Council's Committee Room on the second floor of City Hall. Council meetings are held at City Hall in the Council Chambers on the first floor. Check the City's website to confirm meetings at www.durhamnc.gov. City Hall is located in downtown Durham at 101 City Hall Plaza.

#### **SPECIAL CONCERNS**

Some people may be more vulnerable to contaminants in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their healthcare

providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by *Cryptosporidium* and other microbial organisms are available from the **Safe Drinking Water Hotline** (800-426-4791).

#### WHAT IS CRYPTOSPORIDIUM?

This microscopic organism, while a concern for water providers, is typically very effectively removed by the water treatment process combination of filtration, sedimentation

and disinfection. However, when ingested, *Cryptosporidium (Crypto)* can cause fever, diarrhea, and other gastrointestinal symptoms. *Crypto* occurs naturally in rivers and lakes and comes from animal wastes. Controlling and minimizing development and animal activities in our watershed reduces the occurrence of *Crypto* in raw water. As part of the Information Collection Rule, Durham has monitored both supply lakes on a monthly basis since July

of 1997. *Crypto* has **never** been detected in Durham's treated drinking water.

#### **CONSERVATION TIP #95**

Choose new water saving appliances, like a front-loading washing machine that saves up to 20 gallons per load.

#### Old Quarry Finds New Role IN DURHAM'S WATER SUPPLY FUTURE



Teer Quarry

Nestled in northern Durham near the Eno River, Hanson Aggregate's Durham Quarry served as a source of rock materials for over 40 years, although it has not been mined in over a decade. The City of Durham originally investigated the quarry as a potential public water supply in the early 1970's. This preliminary planning was part of Durham's development of the Little River Reservoir.

During the historic drought of 2001 and 2002, the quarry was again looked at as an emergency water source when Lake Michie and Little River reservoir levels were extremely low. Even after the rains began in October 2002 and the reservoirs re-filled, the City of Durham realized

that the quarry is vital to Durham's future water supply. In 2003, the City contracted with engineering firm Hazen & Sawyer to conduct the "Feasibility Study for Teer Quarry Off-Line Raw Water Storage Reservoir." This study provided basic information about the quarry's potential to provide a temporary storage location for water withdrawn from Eno River, Lake Michie and Little River Reservoirs. Based upon that initial study, the quarry has the potential to add 1.32 billion gallons of storage capacity to the City's current supply.

In 2004, the City contracted with Camp, Dresser, and McKee to provide the preliminary engineering services related to implementing the recommendations outlined in the feasibility study. During the engineering project phase, the geological and regulatory research will be conducted to ensure that the quarry will meet State regulations as well as the City's requirements. The City anticipates that this phase of the project will be completed by fall of 2005.

## ABOUT THE City of Durham's Department of Water Management

The Department of Water Management is responsible for all operational functions of the water and sewer systems. This includes the operation and maintenance of Durham's water supply, water treatment and water reclamation facilities as well as supporting functions such as customer billing, meter reading, system rehabilitation, water and sewer maintenance and facility maintenance. Water Management is also responsible for the long-range planning for improvements in the City's water supply, water treatment and wastewater treatment facilities. Additional departmental responsibilities include oversight and implementation of the Water Conservation Program, the Household Hazardous Waste Program, and several monitoring programs such as the Industrial Waste Pretreatment Program and Cross-Connection Control Program. Public information and education programs are also provided, including coordination of tours of reservoirs, water treatment and water reclamation facilities, and participation in community events.

## New Initiatives for the Reorganized Department

The Department of Water Management will complete its first full year as a newly organized "utility" department on June 30, 2005. The City of Durham is currently in the process of implementing an Automated Meter Reading (AMR) program to reduce the cost of reading and collecting other information from water meters throughout the entire water system. In addition to the financial benefit from implementing AMR technology, AMR will enhance the system management efficiency and improve customer service.

An AMR system starts with installing a water meter which contains a small transmitter. The water meter is able to store the water consumption information and transmit via a radio signal. Meter readers can then either collect information from a receiver mounted in a vehicle that drives along the street or from a radio antennae mounted to a telephone pole or building. The readings collected in the receiver are then downloaded into the utility billing system for processing.

While the City is currently using AMR technology to read meters for 100+ large customers, we plan to implement an AMR system for the residential and smaller commercial water meters over the next several years. These water meters represent over 96 percent of the more than 75,000 water meters in the system. Over the last nine months, City staff have been researching and evaluating the different AMR technologies to find the best fit for City purposes. Duke Power and CP&L have already implemented AMR systems in the area.

#### **Questions?**

**Questions** regarding the information in this report should be directed to Water Management staff at the Brown Water Treatment Plant at **560**-



**4362**. For information on water conservation or to arrange a tour of facilities, call **560-4381**. Call **560-4411** for **all** billing questions. For additional information about City operations and services, contact **Durham One Call at** 

560-1200 or visit the City website at www.durhamnc.gov.

#### En Español

Este folleto tiene información importante acerca de la calidad del agua que provee la Ciudad de Durham. Si necesita mayor información acerca del contenido de este folleto el personal del Centro Hispano, 201 W. Main St. Suite 100, teléfono **687-4635**, puede ayudario.

#### **CONSERVATION TIP #31**

**Direct downspouts** and other runoff toward shrubs and trees or into a rain barrel.

### 2004 Poster Contest RESULTS

The theme for the 2004 contest was "Water – Use It Wisely." Congratulations to our winners:

#### **K-2 Winning Entries:**

1st Place: Erika Jara, Kindergarten, EK Powe Elementary

2nd Place: Jorge Campos, Kindergarten, EK Powe Elementary

3rd Place: Cesar Vargas, 1st Grade, EK Powe Elementary



Miriam Orinda & Xiao Song, first place winners for Grades 6-8 and their winning poster entry.

#### **Grades 3-5 Winning Entries:**

1st Place: Christina Hannah, 5th Grade, CC Spaulding Elementary

2nd Place: Grace Diver, 3rd Grade, Trinity School 3rd Place: José Banuelos, 5th Grade, EK Powe Elementary

#### **Grades 6-8 Winning Entries:**

1st Place: Miriam Orinda & Xiao Song, 7th Grade, Githens Middle School 2nd Place: Dylan Britt, 7th Grade, Brogden Middle School

3rd Place (tie): Megan Ashworth, 7th Grade, Brogden Middle School 3rd Place (tie): Julia McEwen, 7th Grade, Brogden Middle School

**Local Statewide Winning Entries:** Three local winners also placed in the statewide Water Conservation poster contest. They were: Miriam Orinda & Xiao Song, 1st Place, *Grades 6-8* 

and Megan Ashworth, 2nd Place, Grades 6-8

#### **DURHAM'S Water Sources**

The sources of drinking water – both tap and bottled – include rivers, lakes, streams, ponds, reservoirs, springs and wells. Durham is fortu-



Spillway at Little River Dam

nate to have two high quality sources of raw (untreated) water. Lake Michie, built in 1926, reliably supplied approximately 19 million gallons per day (MGD) for over 60 years. Driven by rapid development in the mid 1980s, the City constructed the Little River Reservoir and Dam in 1988 to provide an additional 18 MGD of water, for a combined capacity of 37 MGD. In addition to having two water sup-

plies, Durham also has two water treatment plants, the Williams Water Treatment Plant (located on Hillandale Road) and the Brown Water Treatment Plant (located on Infinity Road). Water can be transferred from the two supply lakes to the two treatment plants by gravity flow, hydropower or electric power. Terminal reservoirs at each of the water treatment plants hold a two to three day supply of raw water. In 2002, the City of Durham obtained an allocation of 10 million gallons of water per day from Jordan Lake, another local high quality water source. Future plans call for building a raw water intake at Jordan Lake; however current access is via the Town of Cary's water system. The city also plans to use Hanson Aggregate's Durham Quarry (formerly Teer Quarry) for additional water storage. Read more about this project later in the report.

#### **HOW DOES Water Travel?**

As water travels over the surface of the land or through the ground, minerals and other materials are dissolved naturally. Water can also pick up substances that are the result of animal or human activity. Source water may contain microbial contaminants such as viruses and bacteria; inorganic contaminants such as salts and metals; pesticides and herbicides from agriculture or urban run-off; organic chemicals from industrial processes or run-off; and radioactive contaminants which can be naturally occurring.

#### New Source Water INFORMATION AVAILABLE

The North Carolina Department of Environment and Natural Resources (DENR), Public Water Supply (PWS) Section, Source Water Assessment Program (SWAP) conducted assessments for all drinking water sources across North Carolina. The purpose of the assessments was to determine the susceptibility of each drinking water source (well or surface water intake) to Potential Contaminant Sources (PCSs). The results of the assessment are available in SWAP Assessment Reports that include maps, background information and a relative susceptibility rating of Higher, Moderate or Lower. Since these reports are over 100 pages each, DENR requires only that water providers present the basic information from the report in each year's water quality report.

The relative susceptibility rating of each source for the City of Durham was determined by combining the contaminant rating (determined by the number and location of PCSs within the assessment area) and the inherent vulnerability rating (i.e., characteristics or existing conditions of the watershed and its delineated assessment area). The assessment findings are summarized in the table below:

#### Susceptibility of Sources to Potential Contaminant Sources (PCSs)

SOURCE NAME	SUSCEPTIBILITY RATING	SWAP REPORT DATE
Little River Reservoir	Moderate	March 18, 2005
Lake Michie	Moderate	March 18, 2005

The complete SWAP Assessment report for the City of Durham (PWSID# 03-32-010) may be viewed on the Web at: www.deh.enr. state.nc.us/pws/swap. Or you may obtain a printed copy of this report

by mailing a written request to: Source Water Assessment Program – Report Request, 1634 Mail Service Center, Raleigh NC 27699-1634, or emailing a request to swap@ncmail.net. Please indicate the system name (City of Durham), PWSID (03-32-010), and provide your name, mailing address and phone number. If you have any questions about the SWAP report please contact the Source Water Assessment staff by phone at 919-715-2633.

It is important to understand that a susceptibility rating of "higher" does not imply poor water quality, only the systems' potential to become contaminated by PCS's in the assessment area. The City's "moderate" rating indicates a lesser potential for contamination.

#### **HOW IS Durham's Water Treated?**

Both the Williams Water Treatment Plant (built in 1927, current capacity of 22 MGD) and the Brown Water Treatment Plant (built in 1977,



Plant Operator Tim Lockamy conducts routine facility checks.

current capacity of 30 MGD) operate using optimized conventional water treatment processes. At the water treatment facilities, raw water is mixed with lime to adjust the pH and alum and/or ferric chloride to coagulate particles. After mixing, the water flows into settling basins where the particles clump together (coagulation) and become heavy and settle to the bottom of the basins (flocculation). After disinfection, the clearer water

flows through filters, removing the remaining particles. Fluoride is then added prior to distribution to our customers.

#### WHAT CAN YOU Expect of Drinking Water?

In order to ensure that tap water is safe to drink, the EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. The Food and Drug Administration establishes regulations for contaminants in bottled water that must provide the same protection for public health. Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791).



#### **CONSERVATION TIP #28**

Put food coloring in your toilet tank. If it seeps into the toilet bowl, you have a leak. It's easy to fix and you can **save more than 600 gallons a month**.

#### CONSERVATION TIP #23

Time your shower to keep it under five minutes. You'll save up to 1,000 gallons each month.

#### 2004 CITY OF DURHAM WATER QUALITY SUMMARY

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SUBSTANCE AND UNIT OF MEASUREMENT		MAX. LEVEL ALLOWED (MCL)	IDEAL GOAL (MCGL)	POTENTIAL SOURCE(S) (	OF SUBSTANCE	REASON(S) FOR REGULATING SUBST	ANCE	
Regulated at the Treatment Pla		2.0	2.0	Discharge of drilling wastes	discharge from	Some people who drink water centa	ining barium in excess of the MCL or	vor many voars
<b>Barium</b> mg/L	0.029 (<0.025 – 0.029)	2.0	2.0	Discharge of drilling wastes, metal refineries; erosion of r		Some people who drink water conta could experience an increase in their		ver many years
<b>Fluoride</b> mg/L	1.00 (0.90 - 1.00)	4.0	4.0	Naturally occurring mineral, promote dental health	; also added to	Some people who drink water conta may get bone disease, including pair mottled teeth.		
<b>Nitrate</b> mg/L (as Nitrogen)	0.40 (< 0.10 - 0.40)	10.0	10.0	Runoff from fertilizer use; le tanks, sewage; erosion of na		Infants below the age of six months MCL could become seriously ill and, breath and blue baby syndrome.		
<b>Turbidity</b> NTU	0.10 (<0.05 - 0.10)	TT	N/A	Soil runoff		Turbidity has no health effects; however, turbidity can interfere with disinfection and provide a medium for microbial growth. Turbidity may indicate the presence of disease-causing organisms, such as bacteria, viruses, and parasites that can cause symptoms such		
Turbidity, % of monthly samples ≤ 0.3 NTU	100%	95%	100%			as nausea, cramps, diarrhea and asso	ociated headaches.	,
Alpha emitters pCi/L Samples were collected and analyzed October 2003.	None detected no range	15	0	Erosion of natural deposits		Certain minerals are radioactive and tion. Some people who drink water wyears may have an increased risk of g	with alpha emitters in excess of the N	
Beta/photon emitters pCi/L Samples were collected and analyzed October 2003.	None detected no range	50	0	Decay of natural and man-n	nade deposits	Certain minerals are radioactive and beta radiation. Some people who dri MCL over many years may have an ir	ink water with beta/photon emitters	
Regulated at the Customer's Ta	р							
Copper mg/L EPA requires sampling every three years. Sampling & analysis conducted September 2004.	< 0.05 (90th percentile)	AL=1.3	1.3	the Action Level		Copper is an essential nutrient, but some people who drink water containing copper in excess of the action level over a relatively short amount of time could experience gastro-intestinal distress. Some people who drink water containing copper in excess of the action level over many years could suffer liver or kidney damage. People with Wilson's disease should consult their health care provider.		
<b>Lead</b> μg/L EPA requires sampling every three years. Sampling & analysis conducted September 2004.	6 (90th percentile)	AL=15	0	Corrosion of household plumbing systems 4 out of 95 targeted sampling sites exceeded the Action Level  Infants and children who dexperience delays in their profiles the deficits in attention span and the same profiles the same p		experience delays in their physical or	water containing lead in excess of the action level could cal or mental development. Children could show slight arning abilities. Adults who drink this water over many blems or high blood pressure.	
Regulated in the Distribution S	ystem							
<b>Chloramines</b> mg/L (as Cl <sub>2</sub> )	2.8 RAA Running Annual Average	MRDL 4.0	MRDLG 4.0	Water additive to control mi	icrobes	Some people who use water contain perience irritating effects to their eye chloramines well in excess of the MR	es and nose. Some people who drink	water containing
Chlorine mg/l	2.4 RAA	MRDL 4.0	MRDLG 4.0	Disinfectant to control micro March '04 during system bu		Some people who use water contain ence irritating effects to their eyes ar		DL may experi-
Total Coliform Bacteria (as a percent)	0% positive	< 5% positive	0% positive	Naturally present in the env	rironment	Coliforms are bacteria that are natural indicator that other, potentially harm		are used as an
Five Haloacetic Acids (5HAA)	42.4 - System	60	0	By-product of drinking water	er disinfection	Some people who drink water conta have an increased risk of getting can	ining HAAs in excess of the MCL ove	r many years may
μg/L	Average				By-product of drinking water disinfection		cei.	
	(22 – 110) 47.4 - System Average	80	0	By-product of drinking water	er disinfection	Some people who drink water conta may experience problems with their have an increased risk of getting can	ining TTHMs in excess of the MCL ov liver, kidneys, or central nervous syst	
μg/L Total Trihalomethanes	(22 – 110) 47.4 - System	80	0	By-product of drinking wate	er disinfection	Some people who drink water conta may experience problems with their	ining TTHMs in excess of the MCL ov liver, kidneys, or central nervous syst	
µg/L Total Trihalomethanes (ТТНМ) µg/L	(22 – 110) 47.4 - System Average	80 NR	0 NR	By-product of drinking water Component of TTHMs	er disinfection	Some people who drink water conta may experience problems with their have an increased risk of getting can	ining TTHMs in excess of the MCL o liver, kidneys, or central nervous syst cer.	tems, and may
Total Trihalomethanes (TTHM) µg/L  Unregulated Substances Chlorodibromomethane	(22 – 110) 47.4 - System Average (0 – 100) 2.0				er disinfection	Some people who drink water conta may experience problems with their	ining TTHMs in excess of the MCL or liver, kidneys, or central nervous syst cer. ining TTHMs in excess of the MCL or liver, kidneys, or central nervous syst	tems, and may
μg/L  Total Trihalomethanes (TTHM) μg/L  Unregulated Substances  Chlorodibromomethane μg/L  Chloroform	(22 – 110) 47.4 - System Average (0 – 100) 2.0 (< 1.0 – 2.0)	NR	NR	Component of TTHMs	er disinfection	Some people who drink water conta may experience problems with their have an increased risk of getting can - Some people who drink water conta may experience problems with their	ining TTHMs in excess of the MCL or liver, kidneys, or central nervous syst cer. ining TTHMs in excess of the MCL or liver, kidneys, or central nervous syst	tems, and may
μg/L  Total Trihalomethanes (TTHM) μg/L  Unregulated Substances  Chlorodibromomethane μg/L  Chloroform μg/L  Bromodichloromethane	(22 – 110)  47.4 - System Average (0 – 100)  2.0 (< 1.0 – 2.0)  90 (<1 – 90)	NR NR	NR NR	Component of TTHMs  Component of TTHMs	er disinfection	Some people who drink water conta may experience problems with their have an increased risk of getting can - Some people who drink water conta may experience problems with their	ining TTHMs in excess of the MCL or liver, kidneys, or central nervous syst cer. ining TTHMs in excess of the MCL or liver, kidneys, or central nervous syst	tems, and may
μg/L  Total Trihalomethanes (TTHM) μg/L  Unregulated Substances  Chlorodibromomethane μg/L  Chloroform μg/L  Bromodichloromethane μg/L  Monochloro-acetic Acid	(22 – 110)  47.4 – System Average (0 – 100)  2.0 (< 1.0 – 2.0)  90 (<1 – 90)  16.0 (<1 – 16)  6.0	NR NR NR	NR NR NR	Component of TTHMs  Component of TTHMs  Component of TTHMs	er disinfection	Some people who drink water conta may experience problems with their have an increased risk of getting can - Some people who drink water conta may experience problems with their	ining TTHMs in excess of the MCL or liver, kidneys, or central nervous syst cer.  ining TTHMs in excess of the MCL or liver, kidneys, or central nervous syst cer.	ver many years tems, and may
μg/L  Total Trihalomethanes (TTHM) μg/L  Unregulated Substances  Chlorodibromomethane μg/L  Chloroform μg/L  Bromodichloromethane μg/L  Monochloro-acetic Acid μg/L  Dichloro-acetic Acid	(22 – 110)  47.4 - System Average (0 – 100)  2.0 (<1.0 – 2.0)  90 (<1 – 90)  16.0 (<1 – 16)  6.0 (<2.0 – 6.0)  49.0	NR NR NR	NR NR NR	Component of TTHMs  Component of TTHMs  Component of TTHMs  Component of 5HAAs	er disinfection	Some people who drink water conta may experience problems with their have an increased risk of getting can  Some people who drink water conta may experience problems with their have an increased risk of getting can  Some people who drink water conta	ining TTHMs in excess of the MCL or liver, kidneys, or central nervous syst cer.  ining TTHMs in excess of the MCL or liver, kidneys, or central nervous syst cer.	ver many years tems, and may
μg/L  Total Trihalomethanes (TTHM) μg/L  Unregulated Substances  Chlorodibromomethane μg/L  Chloroform μg/L  Bromodichloromethane μg/L  Monochloro-acetic Acid μg/L  Dichloro-acetic Acid μg/L  Trichloro-acetic Acid	(22 – 110)  47.4 – System Average (0 – 100)  2.0 (<1.0 – 2.0)  90 (<1 – 90)  16.0 (<1 – 16) 6.0 (<2.0 – 6.0)  49.0 (11 – 49)  55.0	NR NR NR NR	NR NR NR N/A	Component of TTHMs Component of TTHMs Component of TTHMs Component of 5HAAs Component of 5HAAs		Some people who drink water conta may experience problems with their have an increased risk of getting can  Some people who drink water conta may experience problems with their have an increased risk of getting can  Some people who drink water conta	ining TTHMs in excess of the MCL or liver, kidneys, or central nervous syst cer.  ining TTHMs in excess of the MCL or liver, kidneys, or central nervous syst cer.  ining HAAs in excess of the MCL ove cer.	ver many years tems, and may
μg/L  Total Trihalomethanes (TTHM) μg/L  Unregulated Substances  Chlorodibromomethane μg/L  Chloroform μg/L  Bromodichloromethane μg/L  Monochloro-acetic Acid μg/L  Dichloro-acetic Acid μg/L  Trichloro-acetic Acid μg/L  Sodium	(22 – 110)  47.4 - System Average (0 – 100)  2.0 (<1.0 – 2.0)  90 (<1 – 90)  16.0 (<1 – 16) 6.0 (<2.0 – 6.0) 49.0 (11 – 49)  55.0 (11 – 55)	NR NR NR NR NR NR	NR NR NR N/A N/A N/A 20 [Proposed]	Component of TTHMs  Component of TTHMs  Component of TTHMs  Component of 5HAAs  Component of 5HAAs	t in soil and water	Some people who drink water conta may experience problems with their have an increased risk of getting can  Some people who drink water conta may experience problems with their have an increased risk of getting can  Some people who drink water conta have an increased risk of getting can	ining TTHMs in excess of the MCL or liver, kidneys, or central nervous syst cer.  ining TTHMs in excess of the MCL or liver, kidneys, or central nervous syst cer.  ining HAAs in excess of the MCL ove cer.	ver many years tems, and may
μg/L  Total Trihalomethanes (TTHM) μg/L  Unregulated Substances  Chlorodibromomethane μg/L  Chloroform μg/L  Bromodichloromethane μg/L  Monochloro-acetic Acid μg/L  Dichloro-acetic Acid μg/L  Trichloro-acetic Acid μg/L  Sodium mg/L  Sulfate mg/L  Total Organic Carbon (TOC) mg/I  Results show the range of TOC in both source and treated water. Durham's processes remove more	(22 – 110)  47.4 - System Average (0 – 100)  2.0 (<1.0 – 2.0)  90 (<1 – 90)  16.0 (<1 – 16) 6.0 (<2.0 – 6.0)  49.0 (11 – 49)  55.0 (11 – 55)  28.1 (16.4 – 28.1)  15 (13 – 15)  Average Removal 58% Source 9.1 (4.7 – 9.1) Treated	NR NR NR NR NR NR	NR NR NR N/A N/A N/A 20 [Proposed]	Component of TTHMs  Component of TTHMs  Component of TTHMs  Component of 5HAAs  Component of 5HAAs  Naturally occurring element	t in soil and water in soil	Some people who drink water conta may experience problems with their have an increased risk of getting can  Some people who drink water conta may experience problems with their have an increased risk of getting can  Some people who drink water conta have an increased risk of getting can  Sodium is an essential nutrient; how to high blood pressure.	ining TTHMs in excess of the MCL or liver, kidneys, or central nervous system.  Ining TTHMs in excess of the MCL or liver, kidneys, or central nervous system.  Ining HAAs in excess of the MCL ovecer.  Ining HAAs in excess of the MCL ovecer.  In ever, consuming high levels of sodiur some people who drink water contained the fects. However, TOC provide ucts. These byproducts include triha Drinking water containing these by the effects, liver or kidney problems, or central nervous systems.	ver many years tems, and may  ver many years tems, and may  er many years may  m can contribute  aining high levels  es a medium for lomethanes products in excess
μg/L  Total Trihalomethanes (TTHM) μg/L  Unregulated Substances  Chlorodibromomethane μg/L  Chloroform μg/L  Bromodichloromethane μg/L  Monochloro-acetic Acid μg/L  Dichloro-acetic Acid μg/L  Trichloro-acetic Acid μg/L  Sodium mg/L  Sulfate mg/L  Total Organic Carbon (TOC) mg/l  Results show the range of TOC in both source and treated water. Durham's processes remove more than the required 50%.	(22 – 110)  47.4 - System Average (0 – 100)  2.0 (<1.0 – 2.0)  90 (<1 – 90)  16.0 (<1 – 16)  6.0 (<2.0 – 6.0)  49.0 (11 – 49)  55.0 (11 – 55)  28.1 (16.4 – 28.1)  15 (13 – 15)  Average Removal 58% Source 9.1 (4.7 – 9.1) Treated 3.9 (2.0 – 3.9)	NR NR NR NR NR NR NR NR	NR NR NR N/A N/A N/A 20 [Proposed] 250 [Proposed] TT 50% removal	Component of TTHMs  Component of TTHMs  Component of TTHMs  Component of 5HAAs  Component of 5HAAs  Component of 5HAAs  Naturally occurring element  Naturally occurring mineral  Naturally present in the env	t in soil and water in soil ironment	Some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can the formation of disinfection byprod (THMS) and haloacetic acids (HAAS), of the MCL may lead to adverse heal effects, and may lead to an increased	ining TTHMs in excess of the MCL or liver, kidneys, or central nervous system.  Ining TTHMs in excess of the MCL or liver, kidneys, or central nervous system.  Ining HAAs in excess of the MCL over cer.  Ining HAAs in excess of the MCL over cer.  Ining HAAs in excess of the MCL over cer.  In ever, consuming high levels of sodiur cer.  In every consuming high levels of sodiur cer.	ver many years tems, and may  ver many years tems, and may  er many years may  m can contribute  mining high levels  es a medium for elomethanes products in excess or nervous system
μg/L  Total Trihalomethanes (TTHM) μg/L  Unregulated Substances  Chlorodibromomethane μg/L  Chloroform μg/L  Bromodichloromethane μg/L  Monochloro-acetic Acid μg/L  Dichloro-acetic Acid μg/L  Trichloro-acetic Acid μg/L  Sodium mg/L  Sulfate mg/L  Total Organic Carbon (TOC) mg/I  Results show the range of TOC in both source and treated water. Durham's processes remove more	(22 – 110)  47.4 - System Average (0 – 100)  2.0 (<1.0 – 2.0)  90 (<1 – 90)  16.0 (<1 – 16)  6.0 (<2.0 – 6.0)  49.0 (11 – 49)  55.0 (11 – 55)  28.1 (16.4 – 28.1)  15 (13 – 15)  Average Removal 58% Source 9.1 (4.7 – 9.1) Treated 3.9 (2.0 – 3.9)	NR NR NR NR NR NR NR NR NR OR NR NR	NR NR NR N/A N/A 20 [Proposed] 250 [Proposed] TT 50% removal	Component of TTHMs  Component of TTHMs  Component of TTHMs  Component of 5HAAs  Component of 5HAAs  Naturally occurring element	t in soil and water in soil ironment  NTU: Nephelomet clarity or cloudines	Some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water cont	ining TTHMs in excess of the MCL or liver, kidneys, or central nervous system.  Ining TTHMs in excess of the MCL or liver, kidneys, or central nervous system.  Ining HAAs in excess of the MCL ovecer.  Ining HAAs in excess of the MCL ovecer.  In ever, consuming high levels of sodiur some people who drink water contained the fects. However, TOC provide ucts. These byproducts include triha Drinking water containing these by the effects, liver or kidney problems, or central nervous systems.	ver many years tems, and may  ver many years tems, and may  er many years may  m can contribute  aining high levels  es a medium for lomethanes products in excess
μg/L  Total Trihalomethanes (TTHM) μg/L  Unregulated Substances  Chlorodibromomethane μg/L  Chloroform μg/L  Bromodichloromethane μg/L  Monochloro-acetic Acid μg/L  Dichloro-acetic Acid μg/L  Trichloro-acetic Acid μg/L  Sodium mg/L  Sulfate mg/L  Total Organic Carbon (TOC) mg/l  Results show the range of TOC in both source and treated water. Durham's processes remove more than the required 50%.	(22 – 110)  47.4 - System Average (0 – 100)  2.0 (< 1.0 – 2.0)  90 (<1 – 90)  16.0 (<2 – 6.0)  49.0 (11 – 49)  55.0 (11 – 55)  28.1 (16.4 – 28.1)  15 (13 – 15)  Average Removal 58% Source 9.1 (4.7 – 9.1) Treated 3.9 (2.0 – 3.9)	NR NR NR NR NR NR NR NR NR OR NR NR	NR NR NR N/A N/A 20 [Proposed] 250 [Proposed] TT 50% removal	Component of TTHMs  Component of TTHMs  Component of TTHMs  Component of 5HAAs  Component of 5HAAs  Component of 5HAAs  Naturally occurring element  Naturally occurring mineral  Naturally present in the env	t in soil and water in soil ironment  NTU: Nephelomet clarity or cloudines N/A: Not Applicate	Some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water feets of sulfate.  Total organic carbon (TOC) has no he formation of disinfection by prod (THMs) and haloacetic acids (HAAs), of the MCL may lead to adverse heal effects, and may lead to an increased ric Turbidity Units; measures the sof water old	ining TTHMs in excess of the MCL or liver, kidneys, or central nervous system.  Ining TTHMs in excess of the MCL or liver, kidneys, or central nervous system.  Ining HAAs in excess of the MCL over cer.  Ining HAAs in excess of the MCL over cer.  Ining HAAs in excess of the MCL over cer.  In ining	ver many years tems, and may  ver many years tems, and may  er many years may  er many years may  er many high levels  aining high levels  as a medium for allomethanes for nervous system  ANNUAL  AVERAGE  7.2 – 8.2
μg/L  Total Trihalomethanes (TTHM) μg/L  Unregulated Substances  Chlorodibromomethane μg/L  Chloroform μg/L  Bromodichloromethane μg/L  Monochloro-acetic Acid μg/L  Dichloro-acetic Acid μg/L  Trichloro-acetic Acid μg/L  Sodium mg/L  Sulfate mg/L  Total Organic Carbon (TOC) mg/l  Results show the range of TOC in both source and treated water. Durham's processes remove more than the required 50%.  KEY TO ABBREVIATION  mg/l: milligrams per liter, or pa	(22 – 110)  47.4 - System Average (0 – 100)  2.0 (< 1.0 – 2.0)  90 (<1 – 90)  16.0 (<1 – 16)  6.0 (<2.0 – 6.0)  49.0 (11 – 49)  55.0 (11 – 55)  28.1 (16.4 – 28.1)  15 (13 – 15)  Average Removal 58% Source 9.1 (4.7 – 9.1) Treated 3.9 (2.0 – 3.9)  NS IN TABLE  rts per million evel; the highest	NR NR NR NR NR NR NR NR AR NR	NR NR NR N/A N/A N/A 20 [Proposed] 250 [Proposed] TT 50% removal	Component of TTHMs  Component of TTHMs  Component of TTHMs  Component of 5HAAs  Component of 5HAAs  Component of 5HAAs  Naturally occurring element  Naturally occurring mineral  Naturally present in the env  and Disinfectant Level g water disinfectant hown or expected risk  entration of a	t in soil and water in soil ironment  NTU: Nephelomet clarity or cloudines N/A: Not Applicat NR: Not Regulater	Some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can increased risk of water some problems.	ining TTHMs in excess of the MCL or liver, kidneys, or central nervous system.  Ining TTHMs in excess of the MCL or liver, kidneys, or central nervous system.  Ining HAAs in excess of the MCL or liver, kidneys, or central nervous system.  Ining HAAs in excess of the MCL or liver, kidneys, or central nervous system.  In ining HAAs in excess of the MCL or liver, consuming high levels of sodiur some people who drink water contained the effects. However, TOC provide ucts. These byproducts include triha Drinking water containing these byth effects, liver or kidney problems, or liver or kidney p	wer many years tems, and may  wer many years tems, and may  er many years may  er many years may  m can contribute  aining high levels  es a medium for allomethanes products in excess or nervous system  ANNUAL AVERAGE  7.2 – 8.2 27 0.02
μg/L  Total Trihalomethanes (TTHM) μg/L  Unregulated Substances  Chlorodibromomethane μg/L  Chloroform μg/L  Bromodichloromethane μg/L  Monochloro-acetic Acid μg/L  Dichloro-acetic Acid μg/L  Trichloro-acetic Acid μg/L  Sodium mg/L  Sulfate mg/L  Total Organic Carbon (TOC) mg/l  Results show the range of TOC in both source and treated water. Durham's processes remove more than the required 50%.  KEY TO ABBREVIATION  mg/l: milligrams per liter, or pa	(22 – 110)  47.4 - System Average (0 – 100)  2.0 (< 1.0 – 2.0)  90 (<1 – 90)  16.0 (<1 – 16)  6.0 (<2.0 – 6.0)  49.0 (11 – 49)  55.0 (11 – 55)  28.1 (16.4 – 28.1)  15 (13 – 15)  Average Removal 58% Source 9.1 (4.7 – 9.1) Treated 3.9 (2.0 – 3.9)  NS IN TABLE  rts per million evel; the highest	NR NR NR NR NR NR NR NR NR AR AL: Action contamina or other re	NR NR NR N/A N/A N/A 20 [Proposed] 250 [Proposed] TT 50% removal	Component of TTHMs  Component of TTHMs  Component of TTHMs  Component of 5HAAs  Component of 5HAAs  Component of 5HAAs  Naturally occurring element  Naturally occurring mineral  Naturally present in the env  all Disinfectant Level g water disinfectant hown or expected risk  centration of a heeded, triggers treatment a water system must	t in soil and water in soil ironment  NTU: Nephelomet clarity or cloudines N/A: Not Applicate	Some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can increased risk of water some problems.	ining TTHMs in excess of the MCL or liver, kidneys, or central nervous systems.  ining TTHMs in excess of the MCL or liver, kidneys, or central nervous systems.  ining HAAs in excess of the MCL or liver, kidneys, or central nervous systems.  ining HAAs in excess of the MCL over cer.  ever, consuming high levels of sodium some people who drink water containing these by the effects. However, TOC provide ucts. These byproducts include trihaborinking water containing these by the effects, liver or kidney problems, or risk of cancer.  SUBSTANCE, UNIT OF MEASUREMENT  pH, standard units - range Alkalinity, mg/L Aluminum, mg/L Calcium, mg/L Chloride, mg/L Chloride, mg/L	er many years tems, and may  ver many years tems, and may  er many years may  er many years may  er many years may  er many years may  Annual Average  7.2 – 8.2  27  0.02  4.9  23.3
μg/L  Total Trihalomethanes (TTHM) μg/L  Unregulated Substances  Chlorodibromomethane μg/L  Chloroform μg/L  Bromodichloromethane μg/L  Monochloro-acetic Acid μg/L  Dichloro-acetic Acid μg/L  Trichloro-acetic Acid μg/L  Sodium mg/L  Sulfate mg/L  Total Organic Carbon (TOC) mg/l Results show the range of TOC in both source and treated water. Durham's processes remove more than the required 50%.  KEY TO ABBREVIATION  mg/l: milligrams per liter, or pa MCL: Maximum Contaminant L level of a contaminant that is all water.  MCLG: Maximum Contaminant	47.4 - System Average (0 - 100)  2.0 (<1.0 - 2.0)  90 (<1 - 90)  16.0 (<1 - 16)  6.0 (<2.0 - 6.0)  49.0 (11 - 49)  55.0 (11 - 55)  28.1 (16.4 - 28.1)  15 (13 - 15)  Average Removal 58% Source 9.1 (4.7 - 9.1) Treated 3.9 (2.0 - 3.9)  NS IN TABLE  rts per million Level; the highest owed in drinking	NR NR NR NR NR NR NR NR NR Coal; the I below white to health. AL: Action contamination or other refollow. Act	NR NR NR N/A N/A N/A 20 [Proposed] 250 [Proposed] TT 50% removal	Component of TTHMs  Component of TTHMs  Component of TTHMs  Component of 5HAAs  Component of 5HAAs  Component of 5HAAs  Naturally occurring element  Naturally occurring mineral  Naturally present in the env  all Disinfectant Level g water disinfectant hown or expected risk  entration of a eneeded, triggers treatment a water system must prorted at the 90th	t in soil and water in soil irronment  NTU: Nephelometiclarity or cloudines N/A: Not Applicat NR: Not Regulated ND: Not Detected <: Less Than	Some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can increased risk of water some problems.	ining TTHMs in excess of the MCL or liver, kidneys, or central nervous system.  Ining TTHMs in excess of the MCL or liver, kidneys, or central nervous system.  Ining HAAs in excess of the MCL or liver, kidneys, or central nervous system.  Ining HAAs in excess of the MCL over cer.  In ever, consuming high levels of sodiur some people who drink water contained the flects. However, TOC provide ucts. These byproducts include triha Drinking water containing these byth effects, liver or kidney problems, or its of cancer.  SUBSTANCE, UNIT OF MEASUREMENT  pH, standard units - range Alkalinity, mg/L Aluminum, mg/L Calcium, mg/L Chloride, mg/L Conductivity, micromhos/cm	er many years tems, and may ears tems, and may ears tems, and may ears may ear many years ear many years ear many years may ear many years may ear many years may ear many years may ear many years may ear many years ear many years ear many years may ear many years may ear many years may ear many years may ear many years ear many ea
μg/L  Total Trihalomethanes (TTHM) μg/L  Unregulated Substances  Chlorodibromomethane μg/L  Chloroform μg/L  Bromodichloromethane μg/L  Monochloro-acetic Acid μg/L  Dichloro-acetic Acid μg/L  Trichloro-acetic Acid μg/L  Sodium mg/L  Sulfate mg/L  Total Organic Carbon (TOC) mg/l  Results show the range of TOC in both source and treated water. Durham's processes remove more than the required 50%.  KEY TO ABBREVIATION  mg/l: milligrams per liter, or parameters of a contaminant Level of a contaminant that is all water.	(22 – 110)  47.4 – System Average (0 – 100)  2.0 (< 1.0 – 2.0)  90 (<1 – 90)  16.0 (<2.0 – 6.0)  49.0 (11 – 49)  55.0 (11 – 55)  28.1 (16.4 – 28.1)  15 (13 – 15)  Average Removal 58% Source 9.1 (4.7 – 9.1) Treated 3.9 (2.0 – 3.9)  NS IN TABLE  rts per million evel; the highest owed in drinking	NR NR NR NR NR NR NR NR TR NR NR NR TR NR TR TR Treatment TT: Treatment	NR NR NR N/A N/A N/A 20 [Proposed] 250 [Proposed] TT 50% removal  Maximum Residuevel of a drinking chithere is no known the conceptuit of	Component of TTHMs  Component of TTHMs  Component of TTHMs  Component of 5HAAs  Component of 5HAAs  Component of 5HAAs  Naturally occurring element  Naturally occurring mineral  Naturally present in the env  all Disinfectant Level g water disinfectant hown or expected risk  entration of a eneded, triggers treatment a water system must ported at the 90th eatest risk. a required process	t in soil and water in soil ironment  NTU: Nephelomet clarity or cloudines N/A: Not Applicat NR: Not Regulate ND: Not Detected <: Less Than Special Note: MCLs understand the po	Some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can increased (THMs) and haloacetic acids (HAAs), of the MCL may lead to an increased effects, and may lead to an increased ric Turbidity Units; measures the sof water sole	ining TTHMs in excess of the MCL or liver, kidneys, or central nervous system.  ining TTHMs in excess of the MCL or liver, kidneys, or central nervous system.  ining HAAs in excess of the MCL or liver, kidneys, or central nervous system.  ining HAAs in excess of the MCL over cer.  ining HAAs in excess of the MCL over cer.  ining HAAs in excess of the MCL over cer.  some people who drink water contained the earth of the management of the man	wer many years tems, and may  wer many years tems, and may  ar many years may  Annual Average  7.2 – 8.2  27  0.02  4.9  23.3  174  24  24
μg/L  Total Trihalomethanes (TTHM) μg/L  Unregulated Substances  Chlorodibromomethane μg/L  Chloroform μg/L  Bromodichloromethane μg/L  Monochloro-acetic Acid μg/L  Dichloro-acetic Acid μg/L  Trichloro-acetic Acid μg/L  Sodium mg/L  Sulfate mg/L  Total Organic Carbon (TOC) mg/l Results show the range of TOC in both source and treated water. Durham's processes remove more than the required 50%.  KEY TO ABBREVIATION  MCL: Maximum Contaminant Level of a contaminant that is all water.  MCLG: Maximum Contaminant level of a contaminant in drinking the substantial and the substantial to the substantia	47.4 - System Average (0 - 100)  2.0 (<1.0 - 2.0)  90 (<1 - 90)  16.0 (<1 - 16)  6.0 (<2.0 - 6.0)  49.0 (11 - 49)  55.0 (11 - 55)  28.1 (16.4 - 28.1)  15 (13 - 15)  Average Removal 58% Source 9.1 (4.7 - 9.1) Treated 3.9 (2.0 - 3.9)  NS IN TABLE  rts per million Level; the highest owed in drinking	NR NR NR NR NR NR NR NR TR NR NR NR TR NR NR NR TR TR Treatmended to intended	NR  NR  NR  N/A  N/A  N/A  20 [Proposed]  250 [Proposed]  TT  50% removal  Maximum Residue evel of a drinking chithere is no known the concent, which if exceeding the concentration is a concentration of the concentration of	Component of TTHMs  Component of TTHMs  Component of TTHMs  Component of 5HAAs  Component of 5HAAs  Component of 5HAAs  Naturally occurring element  Naturally occurring mineral  Naturally present in the env  all Disinfectant Level g water disinfectant hown or expected risk  centration of a bedeed, triggers treatment a water system must ported at the 90th beatest risk.	t in soil and water in soil irronment  NTU: Nephelometic clarity or cloudines N/A: Not Applicat NR: Not Regulated ND: Not Detected <: Less Than Special Note: MCLs understand the por many regulated cor drink 2 liters of wat	Some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can increased risk of water water some people who drink water conta have an increased risk of getting can increased risk of getting can be people who drink water conta have an increased risk of getting can increased risk of getting can be people who drink water conta have an increased risk of getting can be people who drink water conta have an increased risk of getting can increased risk of getting can be people who drink water conta have an increased risk of getting can be people who drink water conta have an increased risk of getting can be people who drink water conta have an increased risk of getting can be people who drink water conta have an increased risk of getting can be people who drink water conta have an increased risk of getting can be people who drink water conta have an increased risk of getting can be people who drink water conta have an increased risk of getting can be people who drink water conta have an increased risk of getting can be people who drink water conta have an increased risk of getting can be people who drink water conta	ining TTHMs in excess of the MCL or liver, kidneys, or central nervous systeer.  ining TTHMs in excess of the MCL or liver, kidneys, or central nervous systeer.  ining HAAs in excess of the MCL or liver, kidneys, or central nervous systeer.  ining HAAs in excess of the MCL over cer.  ever, consuming high levels of sodiur some people who drink water containing these by the effects. However, TOC provide ucts. These byproducts include triha Drinking water containing these by the effects, liver or kidney problems, or its of cancer.  SUBSTANCE, UNIT OF MEASUREMENT  pH, standard units - range Alkalinity, mg/L Aluminum, mg/L Calcium, mg/L Cloride, mg/L Conductivity, micromhos/cm Hardness - Calculated, mg/L Hardness - EDTA, mg/L (as phosphorus)	er many years tems, and may er many years tems, and may er many years may er many er may er may er may er many er may er may er many er many er may
μg/L  Total Trihalomethanes (TTHM) μg/L  Unregulated Substances  Chlorodibromomethane μg/L  Chloroform μg/L  Bromodichloromethane μg/L  Monochloro-acetic Acid μg/L  Dichloro-acetic Acid μg/L  Trichloro-acetic Acid μg/L  Sodium mg/L  Sulfate mg/L  Total Organic Carbon (TOC) mg/l Results show the range of TOC in both source and treated water. Durham's processes remove more than the required 50%.  KEY TO ABBREVIATION  mg/l: milligrams per liter, or pa MCL: Maximum Contaminant L level of a contaminant that is all water.  MCLG: Maximum Contaminant level of a contaminant in drinkin which there is no known or exp	(22 – 110)  47.4 – System Average (0 – 100)  2.0 (<1.0 – 2.0)  90 (<1 – 90)  16.0 (<2 – 16)  49.0 (11 – 49)  55.0 (11 – 55)  28.1 (16.4 – 28.1)  15 (13 – 15)  Average Removal 58% Source 9.1 (4.7 – 9.1) Treated 3.9 (2.0 – 3.9)  NS IN TABLE  rts per million evel; the highest owed in drinking	NR NR NR NR NR NR NR NR TR NR NR NR TR NR NR NR TR TR Treatmintended t drinking w	NR  NR  NR  N/A  N/A  N/A  20 [Proposed]  250 [Proposed]  TT  50% removal  Maximum Residuevel of a drinking chithere is no known the concentry, which if excentry, which if excentry is not a concentry that the concentry is not a concentry that the concentry is not a concentry in the concentry is not a concentry in the concentry in the concentry is not a concentry in the concentry in the concentry in the concentry is not a concentry in the concen	Component of TTHMs  Component of TTHMs  Component of TTHMs  Component of 5HAAs  Component of 5HAAs  Component of 5HAAs  Naturally occurring element  Naturally occurring mineral  Naturally present in the env  all Disinfectant Level g water disinfectant hown or expected risk  entration of a eneded, triggers treatment a water system must ported at the 90th eatest risk. a required process	t in soil and water in soil irronment  NTU: Nephelometic clarity or cloudines N/A: Not Applicat NR: Not Regulated ND: Not Detected <: Less Than Special Note: MCLs understand the por many regulated cor drink 2 liters of wat	Some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta may experience problems with their have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water conta have an increased risk of getting can some people who drink water effect for of sulfate.  Total organic carbon (TOC) has no have formation of disinfection byprod (THMs) and haloacetic acids (HAAs), of the MCL may lead to adverse heal effects, and may lead to an increased ric Turbidity Units; measures the sof water ole decine the people water of the	ining TTHMs in excess of the MCL or liver, kidneys, or central nervous systems.  ining TTHMs in excess of the MCL or liver, kidneys, or central nervous systems.  ining HAAs in excess of the MCL or liver, kidneys, or central nervous systems.  ining HAAs in excess of the MCL over cer.  ever, consuming high levels of sodiur some people who drink water contained by the effects. However, TOC provide ucts. These byproducts include triha Drinking water containing these by the effects, liver or kidney problems, of risk of cancer.  SUBSTANCE, UNIT OF MEASUREMENT  pH, standard units - range Alkalinity, mg/L Aluminum, mg/L Calcium, mg/L Conductivity, micromhos/cm Hardness - Calculated, mg/L Hardness - Calculated, mg/L Orthophosphate, mg/L Orthophosphate, mg/L	wer many years tems, and may  wer many years tems, and may  ar many years may  Annual Average  7.2 – 8.2  27  0.02  4.9  23.3  174  24  24

pCi/L: Picocuries per liter is a measure of the radioactivity in water.